Mar. 8, 1983

[54]	CLOSED LOOP CONTROL OF
	COMPRESSIBLE FLUID ADDITION TO A
	MIXTURE OF SUCH FLUID AND A LIQUID

[75] Inventors: Gilbert R. Belangee, Fairfield, Robert J. Dransman, West Chester; Kirby L.

Stone, Cincinnati, all of Ohio

[73] Assignee: Cincinnati Milacron Inc., Cincinnati,

Ohio

[21] Appl. No.: 344,379

[22] Filed: Feb. 1, 1982

[51]	Int. Cl.3	C08J 9/30
[52]	U.S. Cl	521/133 ; 222/55;
		222/57; 521/917

 [56]

References Cited

U.S. PATENT DOCUMENTS

3,984,510	10/1976	Chandra et al
4,008,829	2/1977	Chandra et al 264/328.6
4,090,695	5/1978	Stone et al 222/63
4,157,427	6/1979	Ferber 521/917

Primary Examiner—Maurice J. Welsh Attorney, Agent, or Firm—Daniel P. Worth

[57] ABSTRACT

In reaction injection molding facilities of the recirculation type, a closed loop system controls the addition of a gas to a mixture of liquid and gas. The system takes a sample volume of the liquid and forces a plunger into the sample volume. The distance travelled by the plunger between two preset pressures of the sample is measured and compared to a reference distance to get a control signal that is used to operate a valve that controls gas admission to the mixture.

22 Claims, 3 Drawing Figures

